(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 9 June 2005 (09.06.2005)

(10) International Publication Number WO 2005/052688 A2

(51) International Patent Classification7:

G03F 7/00

(21) International Application Number:

PCT/JP2004/017533

(22) International Filing Date:

18 November 2004 (18.11.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2003-393812

25 November 2003 (25.11.2003)

2004-260765

8 September 2004 (08.09.2004)

- (71) Applicant (for all designated States except US): TOKYO OHKA KOGYO CO., LTD. [JP/JP]; 150, Nakamaruko, Nakahara-ku,, Kawasaki-shi Kanagawa 211-0012 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): TAKAHASHI, Toru [JP/JP]; c/o TOKYO OHKA KOGYO CO., LTD., 150 Nakamaruko, Nakahara-ku,, Kawasaki-shi, Kanagawa 211-0012 (JP). KATSUMATA, Naoya [JP/JP]; c/o TOKYO OHKA KOGYO CO., LTD., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 (JP). MAEDA, Hiroki [JP/JP]; c/o TOKYO OHKA KOGYO CO., LTD., 150, Nakamaruko, Nakahara-ku, Kawasaki-shi, Kanagawa 211-0012 (JP).

(74) Agents: TANAI, Sumio et al.; 2-3-1, Yaesu, Chuo-ku,, Tokyo 104-8453 (JP).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CHEMICALLY AMPLIFIED POSITIVE PHOTOSENSITIVE THERMOSETTING RESIN COMPOSITION METHOD OF FORMING CURED ARTICLE AND METHOD OF PRODUCING FUNCTIONAL DEVICE

(57) Abstract: There is provided a photosensitive thermosetting resin composition used for producing a permanent film, capable of forming a resin layer which is excellent in fluidity upon heat bonding after pattern, formation and also has excellent adhesion as well as bonding properties and/or sealing properties. This composition contains a reaction product of (A) an alkali soluble resin and (C) a 10 crosslinking polyvinyl ether compound, (B) a compound generating an acid under irradiation with radiation, and (D) an epoxy resin.

